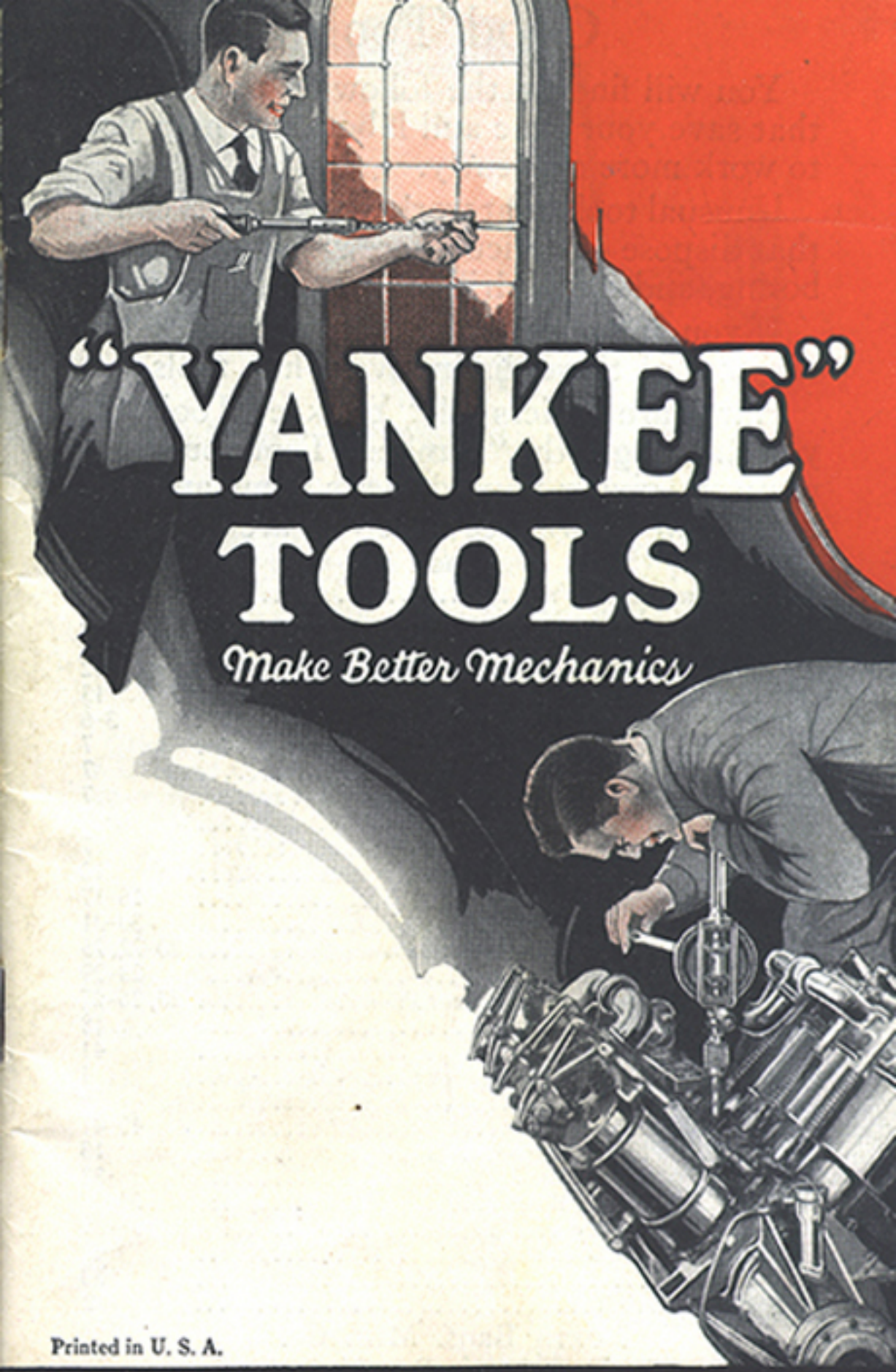

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NORTH BROS. MFG. CO. PHILADELPHIA U.S.A.

For the Man Who Knows Good Tools

You will find on the following pages tools that save your time and labor, and help you to work more efficiently.

Unusual tools that work where others can't, that dispose of difficult screw-driving, wood-boring, and metal-drilling jobs in short order.

If you are a tool lover, you will respond to the lure of these distinctively fine tools.

Hardware dealers sell "Yankee" Tools. If you cannot get the "Yankee" Tool you want, write us, giving your dealer's name and address, and we will see that you are supplied.

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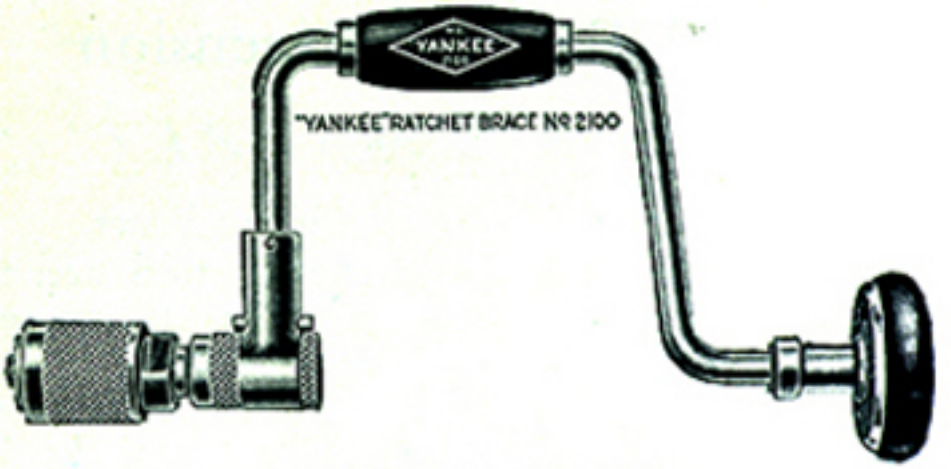


"YANKEE"
Ratchet Bit Brace No. 2100

The finest bit-brace ever made. Holds any shape bit (round, square, any taper) in a vise-like grip. Ratchet works without calling for a hand to hold chuck from turning back. Does every kind of a boring job within scope of a bit-brace.

Quick-centering, Ball-bearing Chuck. Holds round shanks up to ½ in. diam., and square shanks up to ⅝ in. across corners used on larger bits. Ball-bearings give easy action in your hand, enabling you to lock and release bits at a turn of the wrist.

Famous "Yankee" Ratchet. Finger-touch on easy-acting Ratchet Shifter gives sure positive shift, and secures a smooth, silent, powerful ratchet. Bronze-encased against dust and moisture.

Hard Rubber Handles. Unbreakable, won't warp, shrink, bind, or crack. Top handle, steel clad, ball-bearing. Patented "Yankee" method prevents excessive play in sweep handle.

Finish. Nickeled and finished in keeping with the perfection of its construction.

Sizes. 8, 10, 12, and 14-inch sweep.

Try This Test

Put Auger Bit into chuck of "Yankee" Brace. Bore deep into tough wood. Then pull upward with all your strength. Bit will not come out of chuck. This test shows the relentless grip of "Yankee" chuck.

"YANKEE" *on the tool you buy means utmost in quality, efficiency and durability.*

"YANKEE" Bit Extension

No. 2150

Made to follow $\frac{11}{16}$ inch bit or larger.

Chuck is so constructed that it will accommodate a large range of square shanks and hold them securely.

This is a feature that is greatly appreciated, due to lack of uniformity in square shanks and consequent difficulty in holding them in many extensions.

Square shank is held firmly by socket. This is best possible means of holding bits in an extension, eliminating jaws which are of necessity light in limited space available and therefore liable to break.

A "Yankee" feature prevents jamming of bit in socket.

Taper end of shank is accurately machined.

Bits will not loosen and come out while in use.

Nickel plated throughout to prevent rusting, with high polish on sleeve to add to appearance.

Size	*Weight*
15 inch.....	15 oz.
18 inch.....	1 lb. 2 oz.
21 inch.....	1 lb. 4 oz.
24 inch.....	1 lb. 7 oz.

The New, Improved "YANKEE" Spiral Ratchet Screw-drivers

The "Yankee" is the standard spiral ratchet screw-driver the world over.

For more than a quarter of a century it has been so efficient, so convenient, so durable, that there seemed no way to better it.

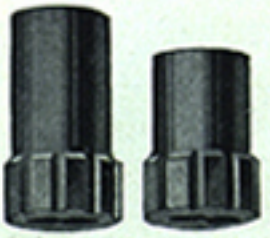
But "Yankee" ingenuity created new models even better than the old.

The chuck was perfected with a "Yankee" patented construction that prevents blade from jamming.

Lock-collar, sleeve and cylinder, formerly fastened by a screw, have now in addition a key-slot that keys these parts together, making them immovable.

Lock-collar, sleeve and the cylinder are keyed together.

A new driving nut, a third longer than the old, gives longer wear.



New Nut — Old Nut

(Three-fourths actual size)

This shows proportionate increase in length of new driving nut over the old.

The ratchet pawls were lengthened and strengthened. The handle was made immovable by lock-nut on cylinder. The new construction shortens the tool slightly, making it more compact, and about same length of stroke.

"Yankee" on a spiral ratchet screw-driver means you are getting the best in the world. Various styles of this famous tool are shown and listed on following pages.

"YANKEE" TOOLS
Make Better Mechanics

"YANKEE"

Spiral Ratchet Screw-drivers

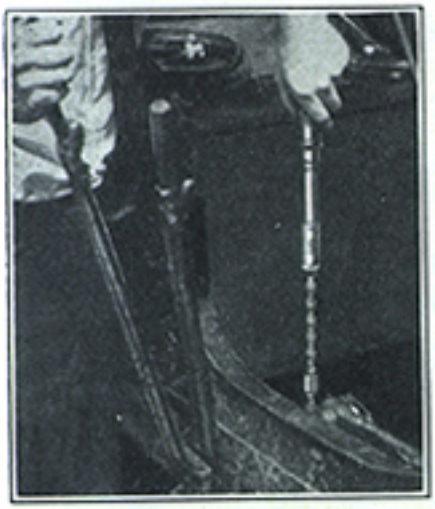
Right- and Left-hand and Rigid Adjustments

Regular Style Pattern:	No. 30-A Standard or Medium	No. 31-A Heavy	No. 35 Light
Length with Bit—Extended	18¼"	25"	12⅜"
Length with Bit—Closed	13"	16¾"	9⅛"

No. 30-A (improved No. 30), the standard or medium size, is used by the mechanics of all countries and is regarded by them as the world's standard spiral ratchet screw-driver. Three bits of different widths are supplied with tool.

No. 31-A (improved No. 31), is the heavy pattern of the regular style and is designed for heavy duty with large screws. Three bits.

No. 35 is a light spiral ratchet screw-driver for electricians, pattern makers, carpenters and amateurs who have small screws to drive. Bits are straight to drive screws where flattened blades will not work. Three bits are supplied with tool. Extra long bits are obtainable. Weighs seven ounces.



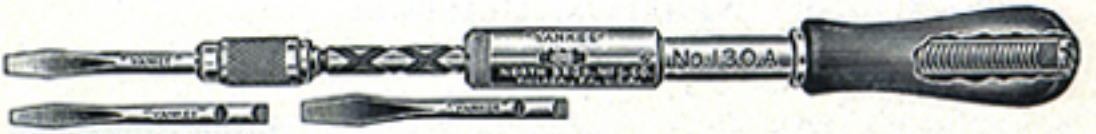
There are many jobs like that illustrated above where the "Yankee" Spiral Ratchet Screw-driver will enable you to drive a screw one-handed in awkward places. The "Yankee" Quick Return Spiral Ratchet Screw-driver (see next page) has a spring in handle that by its tension keeps bit in screw slot, making it easy to work one-handed.

"Yankee" Spiral Ratchet Screw-driver drives or draws screws simply by pushing on the handle. The spiral turns the blade and sends the screw in rapidly.

This "Yankee" Screw-driver is one of the most important time- and labor-saving tools ever invented.

"YANKEE" *on the tool you buy means utmost in quality, efficiency and durability.*

"YANKEE" Quick-Return Spiral Ratchet Screw-drivers



Quick-Return Style Pattern:	No. 130-A Standard or Medium	No. 131-A Heavy	No. 135 Light
Length with bit—Extended	20″	27½″	13¼″
Length with bit—Closed	14¾″	19¼″	10″

No. 130-A, No. 131-A and **No. 135** are the same as the regular style described on a previous page with a spring added in the handle, which causes handle to come back automatically after each push and makes the tool a "quick return." Three bits are included with each screw-driver.

As shown by illustration at left, the "Yankee" Quick Return Spiral Ratchet Screw-driver is convenient for driving screws in narrow places. The tension of the spring in the handle keeps bit in screw slot and leaves one hand free to hold the work.

At the right an electrician is seen putting up switch boxes with the "Yankee" Spiral Ratchet Screw-driver No. 135. This tool enables the worker to handle small screws with ease and speed.

"YANKEE" *on the tool you buy means utmost in quality, efficiency and durability.*

"YANKEE"

Spiral Ratchet Screw-drivers

Manufacturers'

Right Hand, **for Driving Only** (Screws, nuts, etc.).

These special drivers are built for manufacturing work, where spirals are used only for driving screws. By eliminating the various adjustments needed in general utility work, the parts have been strengthened so they have three times the life of the regular spiral screw-drivers.

The simplified construction makes possible the quick replacement of any part without special equipment.
Three bits with each tool.

Regular Style	No. 25	No. 26	No. 27
Length with Bit—Extended	13¾"	20¼"	26⅞"
Length with Bit—Closed	10½"	14½"	18¼"

Quick-Return Style	No. 125	No. 126	No. 127
Length with Bit—Extended	14¾"	22"	29⅝"
Length of Bit—Closed	11⅜"	16¼"	20⅞"

If the occasional withdrawal of screws is necessary by same tool, the above Screw-drivers can be furnished, using different nut with two pawls and shifter, the screw being withdrawn by left-hand ratchet or pulling handle upward.

Other than this they are same as above in size and appearance, and are distinguished by A after No.; thus, 26A, 126A, etc.

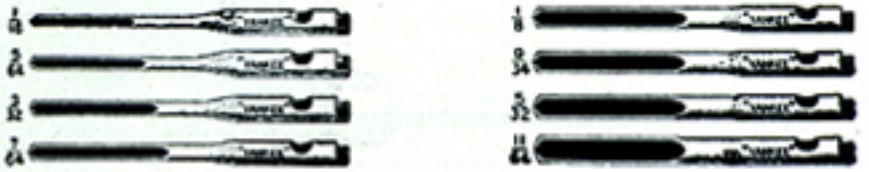
"YANKEE"
Spiral Ratchet Screw-driver Attachments

The shanks for attachments for "Yankee" Spiral Ratchet Screw-drivers are same diameter as regular bit where it fits in chuck of spiral driver.

Those for **No. 30** have shanks $\frac{9}{32}$ diameter:
Fit No. 30-A, 130-A, 26, 126, 26-A, 126-A.

Those for **No. 31** have shanks $\frac{5}{16}$ diameter:
Fit No. 31-A, 131-A, 27, 127, 27-A, 127-A.

Those for **No. 35** have shanks $\frac{7}{32}$ diameter:
Fit No. 35, 135, 25, 125.



Chuck with eight drill points $\frac{1}{16}$ to $\frac{11}{64}$ inch. The drill point fits into chuck and the two together are then put into chuck of spiral driver in the same manner as the regular bit.

Screwholder Bit holds screw, places it, drives it in, and releases automatically. For use especially in places hard to reach.

Countersink. Superior steel for use in hard or soft woods.

Screwholder Bit and Countersink can be obtained for spiral drivers as listed above for No. 30, No. 31, and No. 35.

"Combination" (Hex and Square)
"Hexagon" supplied unless "Combination" specially ordered.

"Hexagon" only

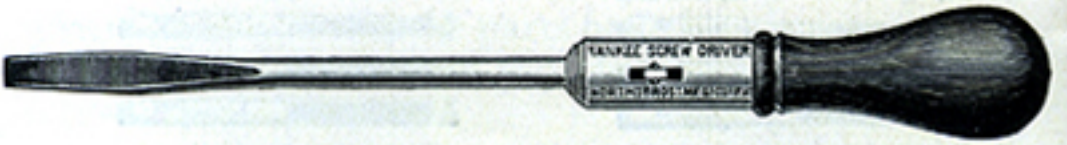
Sockets:

No. 30 $\frac{1}{4}$, $\frac{5}{16}$, $\frac{11}{32}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ across flat.
No. 31 $\frac{11}{32}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{9}{16}$, $\frac{5}{8}$ across flat.
No. 35 $\frac{3}{16}$ Hex only, $\frac{1}{4}$, $\frac{5}{16}$ across flat.

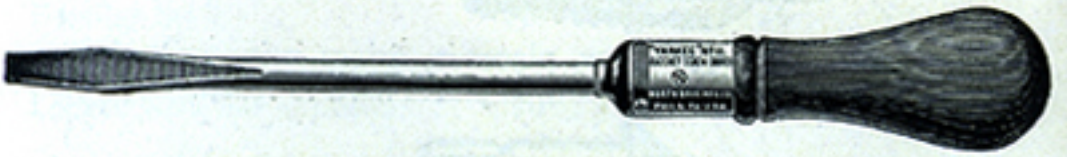
"YANKEE"
Ratchet Screw-drivers

Right-hand Ratchet, Left-hand Ratchet and Rigid Adjustments

"Yankee" Ratchet Screw-drivers are needed by every man who uses tools. You can work more rapidly with them, and more easily, too. One grip on the handle is all that is needed, then turn to and fro, and the "Yankee" Ratchet does the rest. No tiresome grip-and-let-go. Ratchet takes hold going forward and releases coming back. It does the work, and saves your muscles.



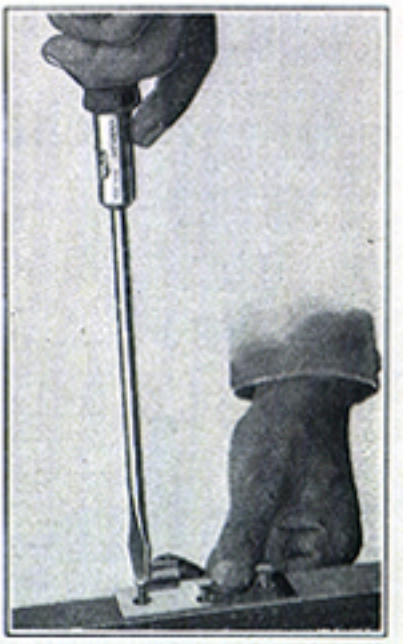
No. 10—Ratchet Shifter moves in same direction as the length of blade. Blade lengths—2, 3, 4, 5, 6, 8, 10, 12 inches.



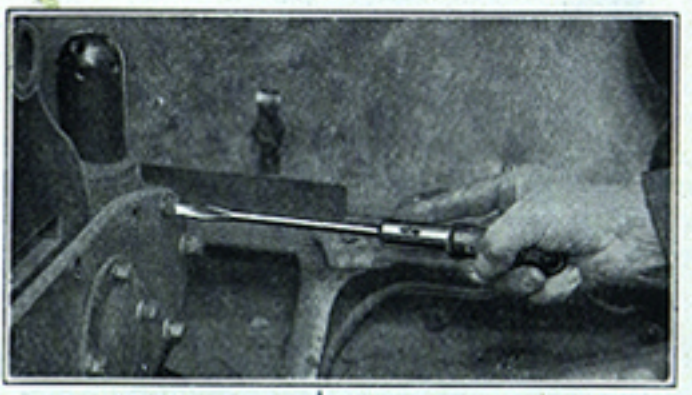
No. 11—Same as No. 10 except Ratchet Shifter moves across instead of parallel to length of blade.

No. 12—Same as 6 inch No. 11, with short, stubby blade only 1⅛ inches long, for use of mechanics, electricians, fitters, and gunsmiths, requiring strong screw-driver with short blade.

It does not take long to put on door hinges if you use a "Yankee" Ratchet Screw-driver. The speed and skill of a carpenter are partly due to the tools he uses. In most cases you will find them to be "Yankee" Tools.



A "Yankee" Ratchet Screw-driver comes in mighty handy in putting up an automobile visor. In the awkward position that you must work, with the screw high above your head, it is a relief to be able to ratchet the screw home with one hand.



Removing or replacing cap screws from a timing-gear case is a quick, easy job if a "Yankee" Ratchet Screw-driver is used. The first good grip on handle does not have to be released until screw is in or out.

"YANKEE"
Ratchet Screw-driver
No. 15

Made to meet the demand for a light blade screw-driver to drive small, wobbly screws. On the blade is a knurled thumb turn, as shown in illustration, which enables you to turn the blade with forefinger and thumb.

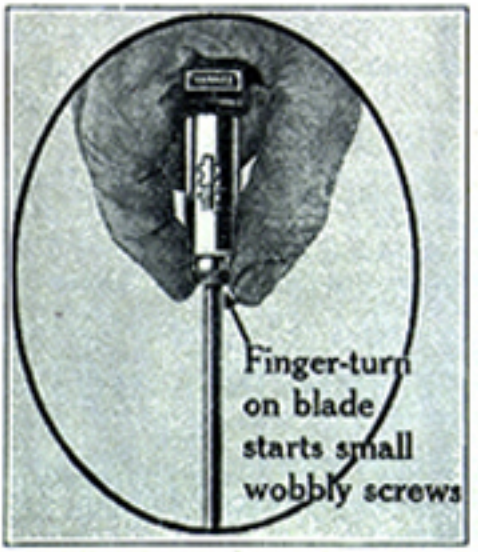
The hand presses steadily on the handle and prevents the screw from wobbling, while the thumb and finger turns blade, until screw is well started, after which it is driven home by turning handle on ratchet movement.

In taking out a screw, it is started by turning blade by handle until loose, and then run out by thumb and finger operating knurled thumb turn.

Blade lengths, 2, 3, 4, 5, 6, and 8 inches.
All blades, $\frac{3}{16}$-inch diameter.

In starting small, wobbly screws, "Yankee" No. 15 is of great value. Turn the knurled washer, at the base of the blade, with the thumb and forefinger, and the screw starts. Saves time and patience.

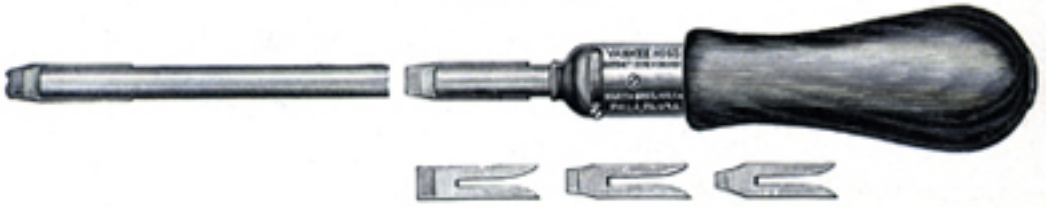
Above a lock is being assembled. The left hand is holding the parts of the lock in position. The little screw is being started by turning blade of "Yankee" No. 15 with thumb and forefinger of right hand.



Note how the hand presses on the handle, holding the tool steady, while thumb and forefinger turn the blade.

Taking down and reassembling a magneto is a tiresome job with an ordinary screw-driver. The "Yankee" Ratchet Screwdriver No. 15 handles the many little screws so rapidly that the job is made easier and much time is saved.

"YANKEE"
Magazine Ratchet Screw-driver
No. 65



A convenient tool for home use. As the four blades vary to suit different sizes of screws, the one driver answers in place of four.

Blades are easily removed and are interchangeable. Magazine in handle holds them when not in use.

Ratchet mechanism for right or left hand, or rigid, is same as in No. 11 "Yankee" Ratchet Driver.

Made in two sizes, differing only in length of shank.

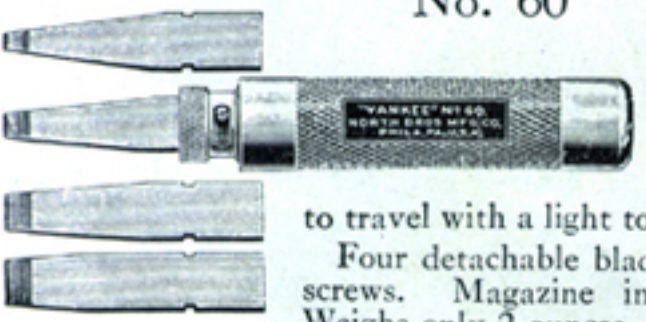
No. 65—1 inch. (Length of shank, 1¼ inches). Entire length, 6¾ inches.

No. 65—6 Inches. (Length of shank, 6 inches). Entire length, 11¾ inches.

Bit Holder for Braces No. 66

Holder with four heavy blades for use in bit brace. Length, 4⅞ inches.

"YANKEE"
Magazine Pocket Screw-driver
No. 60



Useful to sportsmen, motorists, yachtsmen, and for home owners to do odd jobs around the house. Also for mechanics who want to travel with a light tool kit.

Four detachable blades to fit different size screws. Magazine in handle for blades. Weighs only 2 ounces. 3 inches long, closed; ⅝-inch diameter.

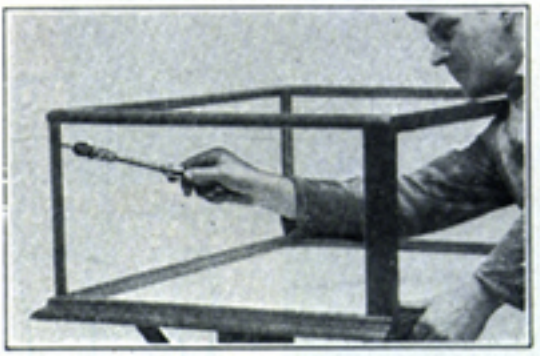
"YANKEE" on the tool you buy means utmost in quality, efficiency and durability.

"YANKEE"
Ratchet Screw-drivers
with Screwholder Attachment

Holds screw, puts it in place, drives it in. Useful especially in places difficult to reach, and where only one hand can be used. Screwholder Attachment consists of two jaws, fastened to a head at one end; a ring to limit spread of jaws at other end; and spring to operate jaws.

It does the work effectively without interfering with the ordinary use of the Screw-driver.

Jaws open as head of screw sinks into wood so screw can be driven flush with surface. It releases automatically. When not required Screwholder Attachment can be pushed back on blade, out of the way.



No. 110 is No. 10 "Yankee" Ratchet Screw-driver with Screwholder Attachment. Length of blade: 3, 4, 5, 6, 8 inches.

No. 111 is No. 11 "Yankee" Ratchet Screw-driver with Screwholder Attachment. Length of blade: 3, 4, 5, 6, 8 inches.

No. 115 is No. 15 "Yankee" Ratchet Screw-driver with Screwholder Attachment. Length of blade: 3, 4, 5, 6, 8 inches.

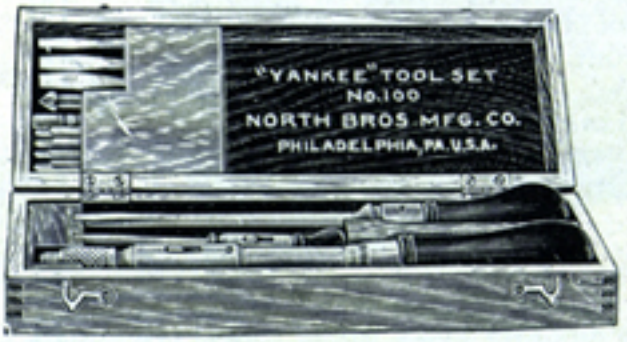
"YANKEE" Tool Set No. 100

This sturdy tool box, made of oak, and handsomely finished, contains one each of the following "Yankee" Tools, described on other pages:

No. 30-A—Spiral Ratchet Screw-driver.

Chuck, with drill points, eight sizes, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 11/64 inch, to use for drilling holes with the No. 30-A Spiral Ratchet Screw-driver.

Countersink to fit in chuck of Spiral Ratchet Screw-driver.

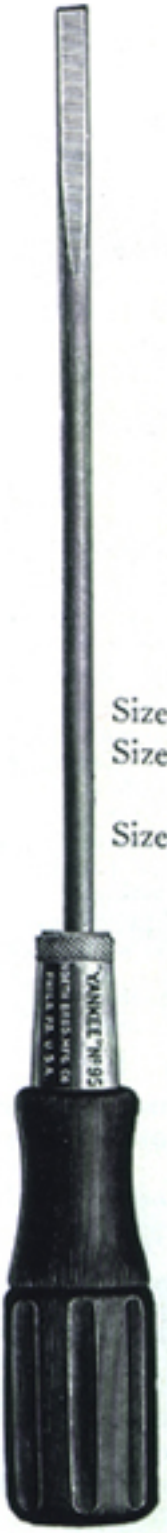


No. 11 Ratchet Screw-driver, with blade 6 in. long.

No. 15 Ratchet Screw-driver, with finger-turn on blade, and 3-inch blade.

This combination in a set covers all the usual requirements in tools for driving and drawing screws, and for boring holes for screws. Box 12½ x 4¾ x 2¾.

"YANKEE"
Plain Screw-drivers



No job can make the blade of a "Yankee" Plain Screw-driver turn or loosen in the handle. Blade and handle are locked together by a "Yankee" device. This special "Yankee" feature prevents blade from turning in handle. Every blade is tested twice before leaving factory.

The blade steel is hardened and tempered exactly for the nature of the tool and the work it has to do.

Blades and ferrules are highly polished. Handles are of hard wood finished in dead black, shaped to fit the hand comfortably and give a firm grip.

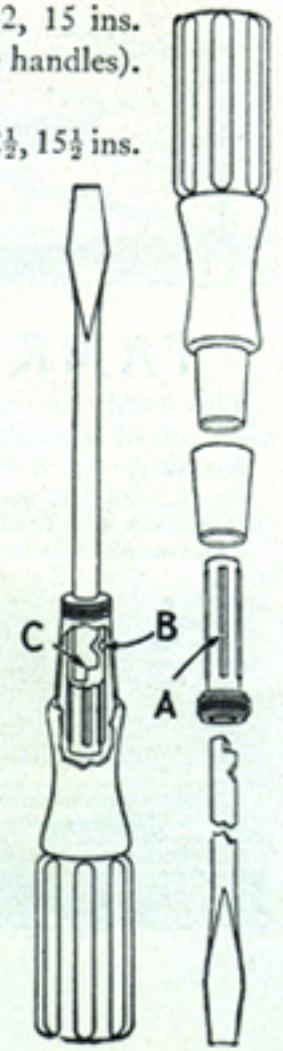
A "Yankee" Plain Screw-driver is a well-balanced tool of the highest quality possible to produce.

No. 90—Standard Style

Sizes: 1½, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 15 ins.
Sizes: 18, 24, 30 ins. (have double grip handles).

No. 95—Cabinet Style

Sizes: 2½, 3½, 4½, 5½, 6½, 7½, 8½, 9½ 10½, 12½, 15½ ins.



"YANKEE" Construction

(A) Bolster has four teeth extending its entire length, which when forced by heavy press into wood of handle makes it impossible to turn blade or bolster in handle.

(B) Metal of bolster is punched down into nick on shank of blade to prevent pulling out.

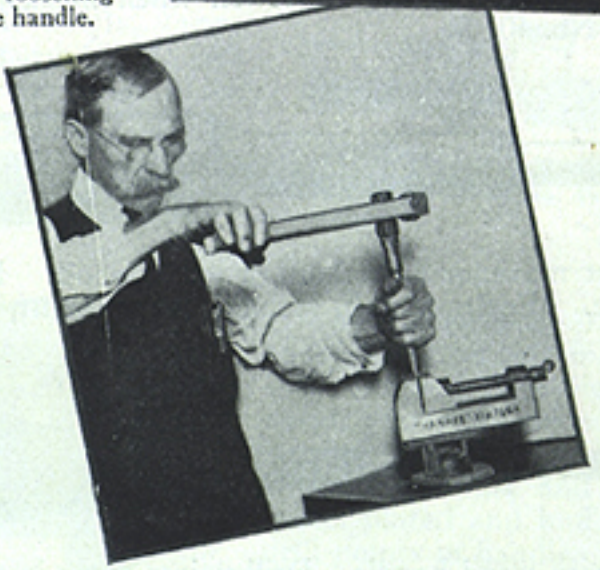
(C) End of shank is offset and fits into offset of bolster to prevent turning.

They Stand Abuse

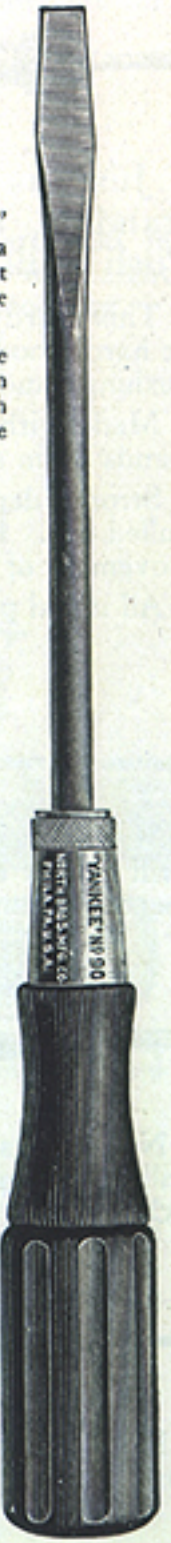
No. 1—A "Yankee" No. 90 is cutting off a strip of steel without chipping or marking the blade in any way.

No. 2—The same screw-driver was then driven into a 4-inch plank—cutting across the grain.

No. 3—The screw-driver driven through the plank without splitting or loosening the handle.



No. 4—The blade did not turn or loosen in the handle even with the powerful twist given it as shown in the illustration.



"YANKEE" TOOLS
Make Better Mechanics

"YANKEE"
Automatic Push Drill No. 41

Just as "Yankee" Spiral Screw-drivers are the standard the world over, so "Yankee" Automatic Push Drill No. 41 is the preferred tool in its class.

This sturdy, dependable tool quickly bores holes in either soft or hard wood without splitting wood. Drill point is revolved by pushing handle. A spring forces handle back for next push.

Made with extreme care from highest quality material, No. 41 stands up in service for years.

Strong, dependable chuck holds drill points so they cannot be pulled out. Drill point revolves backward to clear chips on return movement of handle.

All metal parts nickel plated and buffed.

Magazine in handle holds eight drill points, from $\frac{1}{16}$ to $\frac{11}{64}$ inch. Drill points exposed for quick, easy selection when magazine is opened. Same with No. 40.

No. 40 has ratchet movement for hard or tough wood. Eight drill points in handle. Entire length, including drill point, 10¾ inches.

No. 42 is No. 41 with wood handle. Drill points come in wood box. Length, including drill point, 11⅜ inches.

"YANKEE" ***on the tool you buy means utmost in quality, efficiency and durability.***

No. 43. Lighter tool for use where only smaller sized drill points are required. Three smallest size drill points only are furnished. Length, including drill point, 10¾ inches.

HALF ACTUAL SIZE

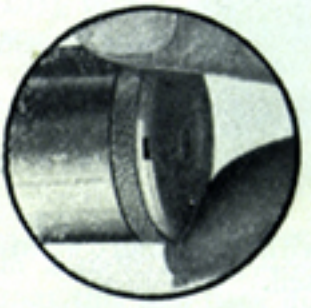
Extra drill points are sold in sets of 8 in wood box or in straight sizes of one dozen in wood box.

"YANKEE" Automatic Drill No. 44

with seven adjustable tensions

Small drills, large drills, hard wood, soft wood—you can make the pressure exactly right with the adjustable tension of this remarkable Drill.

Drill points conveniently held in magazine handle, which in No. 44 only opens up toward chuck.



Tension adjustment

When using fine drills in brittle material, you turn cap in handle to left, and ease tension. With bigger drills in tough wood, you turn cap to right, increasing tension. Saves drill points from breakage.

Made of brass and steel throughout, nickel plated and buffed. Magazine for drill points in handle. Eight drill points, $\frac{1}{16}$" to $\frac{11}{64}$", with each drill, as shown above.

"YANKEE" *on the tool you buy means utmost in quality, efficiency and durability.*

"YANKEE"

Reciprocating Drill No. 50

For Drilling Wood and Metal

Drill runs continuously to the right during both the forward and backward movement of the driver, and therefore drills continuously. The pressure is secured by pushing on the head of the drill which has ball-bearings to reduce friction.

Three-jaw chuck, stronger and more durable than chucks of similar design. No drill points furnished, permitting user to obtain the kind best adapted to work in hand, holds straight shank drills up to ¼ inch diam. The entire length of tool without drill is 16 inches. Movement of driver 8½ inches.

A straight, clean hole is made quickly and with little effort when the "Yankee" Reciprocating Drill No. 50 is used.

"YANKEE"

Push Brace No. 75

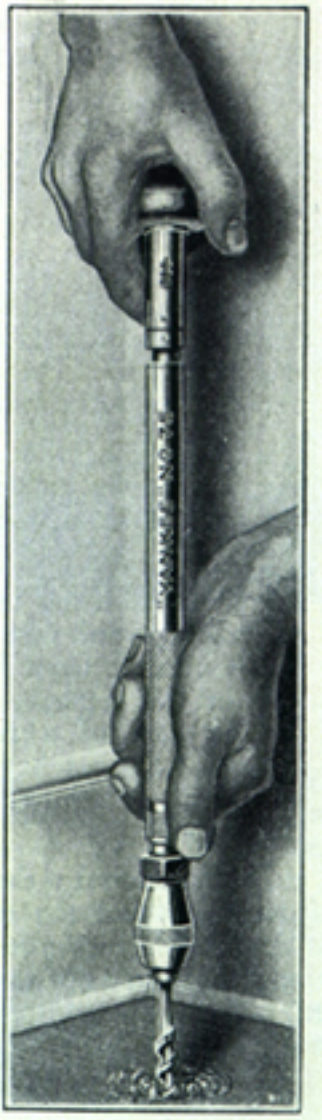
Operated by Pushing Handle

Bores $\frac{3}{16}$ inch holes in metal; drives $\frac{3}{8}$ inch auger bit in hard woods; or $\frac{1}{2}$ to $\frac{5}{8}$ inch bits in white pine. Drills holes, drives screws in or out; taps holes; and with socket bit drives in small lag screws; runs burrs on nuts, on bolts, etc. Being cylindrical, it reaches into tight places where the ordinary bit-brace cannot be operated.

Right- and Left-hand Ratchet movements fit it for extra heavy work that cannot be done conveniently by pushing; and it can be locked rigid.

Two-jaw chuck with drop forged jaws holds squares up to $\frac{1}{2}$ inch wood bit.

Length without bit, $16\frac{1}{4}$ inches closed; $23\frac{1}{2}$ inches extended. All working parts sealed against dust and grit.



Here is a "Yankee" Push Brace boring in a tight corner—one of the many jobs that this tool does quickly and efficiently.

"YANKEE"
Ratchet Breast and Hand Drills
Right, Left and Continuous Ratchet Movements
Single and Double Speed Styles

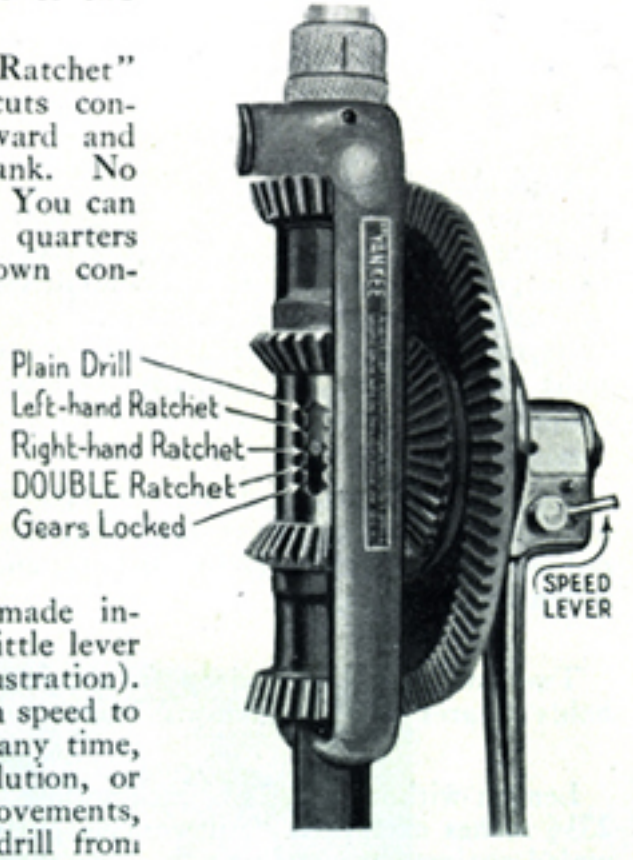
"Yankee" Breast and Hand Drills stand alone in ingenuity and efficiency. They not only save time and labor, compared with other tools for the same purpose, but these "Yankee" drills work in ways and places where no other drilling tool can be worked at all.

Even where you have but an inch or so in which to move crank, the drill may be operated—either right or left ratchet, or DOUBLE ratchet; and with either of two speeds.

When on "Double Ratchet" adjustment the drill cuts continuously on both forward and back movements of crank. No motion or time is lost. You can drill speedily in tight quarters and without taking down construction.

The five "Yankee" ratchet adjustments are shown in the accompanying illustration.

They are controlled by the ratchet shifter seen between the small gears.



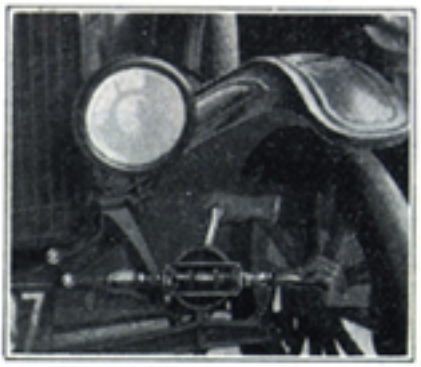
Speed changes are made instantly by shifting the little lever at hub of crank (see illustration). You can shift from high speed to low, or the reverse, at any time, in any part of a revolution, or in any of the ratchet movements, and without removing drill from the work.

In addition to the advantages of the "Yankee" Ratchet adjustments and the two speeds (changed at a finger touch) the "Yankee" gives you a drill that is compact and light in weight and that does not tax your strength in use.

"Yankee" Breast and Hand Drills are built and finished mechanically, on lines of a machine, and can be depended on to give long and satisfactory service.

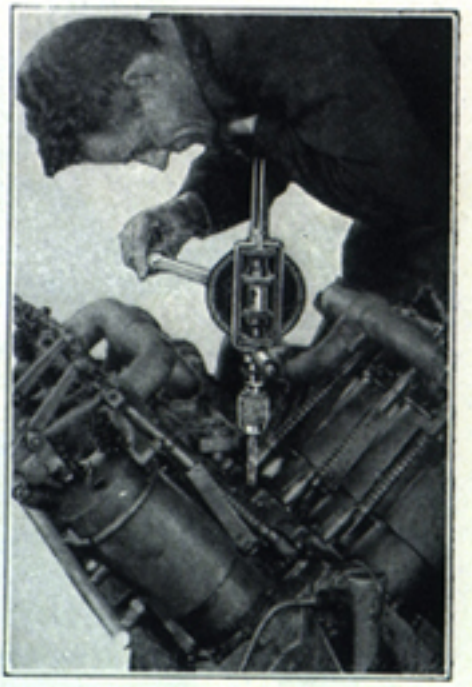
"YANKEE" *on the tool you buy means utmost in quality, efficiency and durability.*

"YANKEE"
Ratchet Breast and Hand Drills



In the illustration to the left "Yankee" Hand Drill No. 1545 is seen drilling for a cotter pin. The "Yankee" Double Ratchet permits the motor mechanic to work through the spokes of the wheel of the car and thus do the job without loss of time.

At the right, "Yankee" Breast Drill No. 1555 is seen in use on an airplane motor where a complete revolution of the crank is impossible. The workman uses the drill set on Double Ratchet. He simply moves crank forward and back in the easiest way. The drill cuts continuously on both forward and back movements no matter how slight. No need to take down construction and no loss of time!



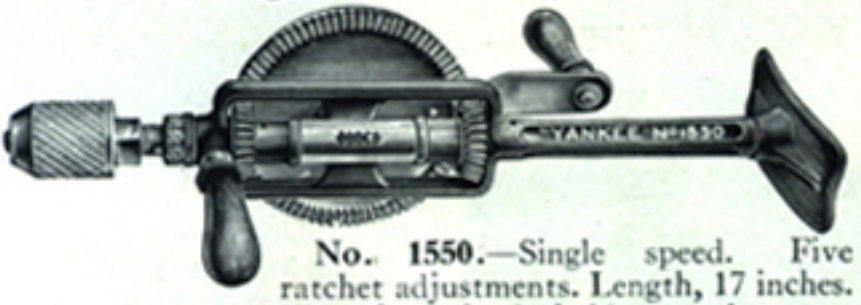
"Yankee" Hand Drill No. 1530, at the left, is drilling in tight quarters for a bell wire. Here again the "Yankee" Double Ratchet makes the job easy and speedy. No. 1530 is only 10½ inches long and weighs but 1¼ pounds, yet has all the ratchet adjustments shown on opposite page.

"YANKEE" *on the tool you buy means utmost in quality, efficiency and durability.*

"YANKEE" Ratchet Breast Drills

No. 1555.—Two speeds. Five ratchet adjustments. Length, 17 inches. Three-jaw chuck holds round shanks up to ½ inch.

No. 555.—Two speeds. Five ratchet adjustments. Length, 18 inches. Two-jaw chuck holds either round or square shanks up to ½ inch.



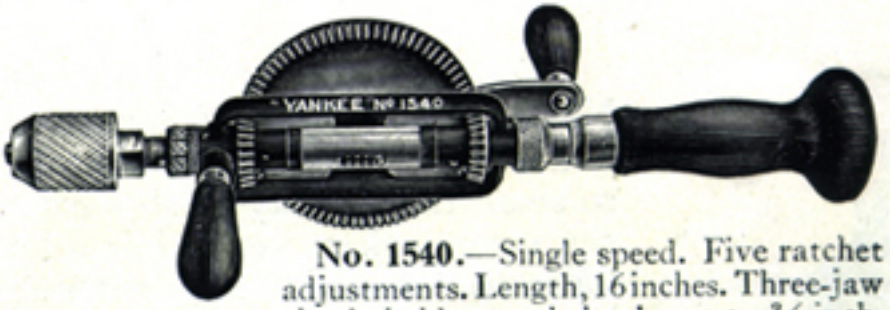
No. 1550.—Single speed. Five ratchet adjustments. Length, 17 inches. Three-jaw chuck holds rounds up to ½ inch.

No. 550.—Single speed. Five ratchet adjustments. Length, 18 inches. Two-jaw chuck holds squares or rounds up to ½ inch.

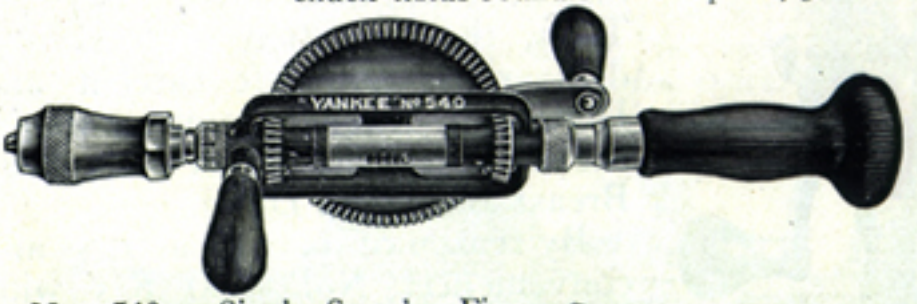
"YANKEE" TOOLS
Make Better Mechanics

On the above D Handles can be supplied to use in place of Breast Plate as an extra part.

"YANKEE"
Ratchet Hand Drills

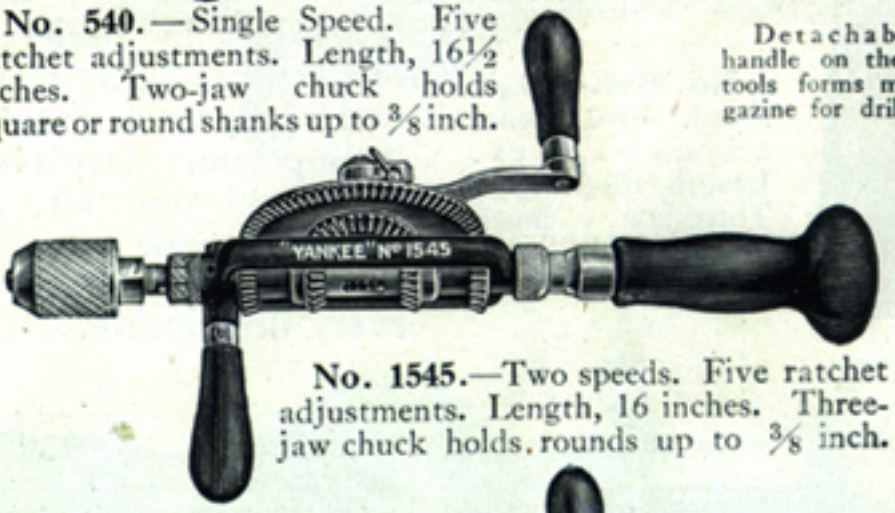


No. 1540.—Single speed. Five ratchet adjustments. Length, 16 inches. Three-jaw chuck holds round shanks up to ⅜ inch.

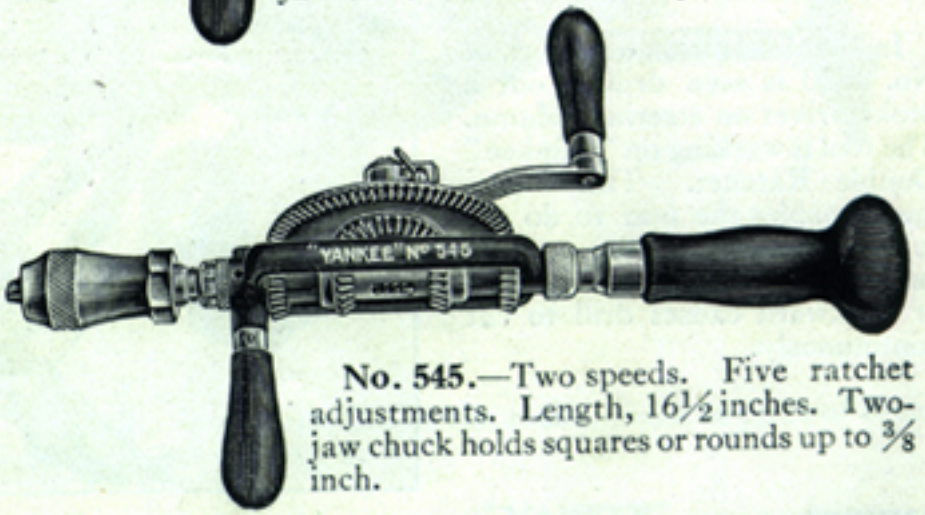


No. 540.—Single Speed. Five ratchet adjustments. Length, 16½ inches. Two-jaw chuck holds square or round shanks up to ⅜ inch.

Detachable handle on these tools forms magazine for drills.



No. 1545.—Two speeds. Five ratchet adjustments. Length, 16 inches. Three-jaw chuck holds rounds up to ⅜ inch.



No. 545.—Two speeds. Five ratchet adjustments. Length, 16½ inches. Two-jaw chuck holds squares or rounds up to ⅜ inch.

Side handle has screw-driver blade to fit all screws in tool.

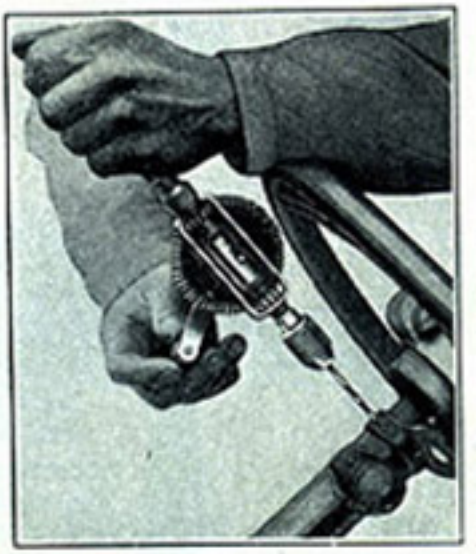
"YANKEE"
Ratchet Hand Drill No. 1530

No. 1530.—Single speed. Five ratchet adjustments. Length, 10½ inches. Three-jaw chuck holds round shanks up to ¼ inch.

"Yankee" Ratchet Hand Drill No. 1530 is only 10½ inches long and weighs but 1¼ pounds. It is so small that it may be slipped into the coat pocket, yet it has all the "Yankee" Ratchet adjustments illustrated and described on page 20. Thus, the operation of this little drill—right and left ratchet and DOUBLE ratchet movements—is the same as the larger "Yankee" Breast and Hand Drills.

By reason of its compactness and convenience, No. 1530 has wide general use by mechanics in all trades, by amateurs and handy men. It takes an important place in the household tool kit, for drilling in all kinds of metal and in wood of every description.

In the illustration at the right No. 1530 is seen drilling out a broken rivet on steering column. The tool is working on "Yankee" Double Ratchet. This movement enables the user to do the job in the most convenient way. Any motion of the crank forward or backward causes drill to cut continuously.

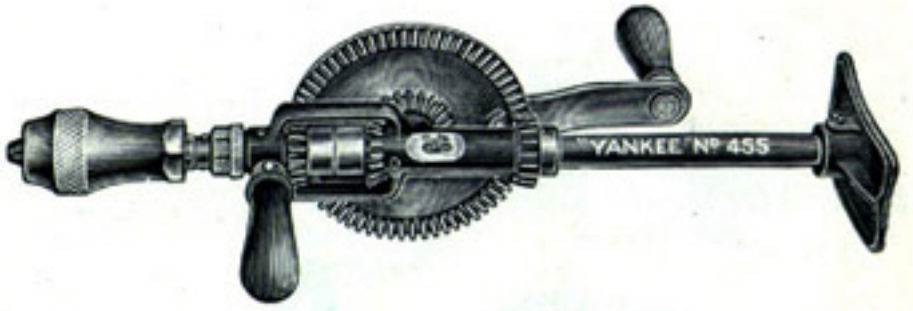


"YANKEE" *on the tool you buy means utmost in quality, efficiency and durability.*

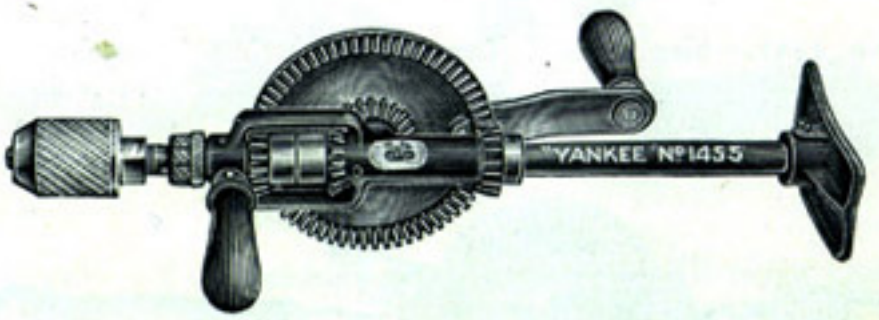
"YANKEE"
Plain Breast Drills

For those not in need of a drilling tool with ratchet movements, but who want a drill that is convenient and dependable, we manufacture "Yankee" Plain Breast and Hand Drills.

The larger sizes of these drills have two speeds. Change of speed is made instantly at a finger touch on speed shifter to be seen on frame between the gears. With shifter at top notch, "S," the tool is set for slow speed; at bottom notch, "F," fast speed; in center notch, "L," tool is locked for opening or closing chuck.



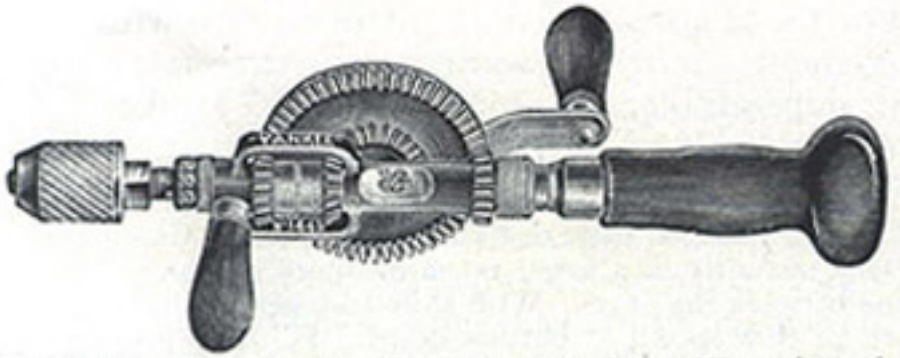
No. 455.—Two speeds. Length, 17¼ inches. Two-jaw chuck holds square or round shanks up to ½ inch.



No. 1455.—Two speeds. Length, 16½ inches. Three-jaw chuck holds round shanks up to ½ inch.

D Handles can be supplied on the above, to use in place of Breast Plate, as an extra part.

"YANKEE"
Plain Hand Drills

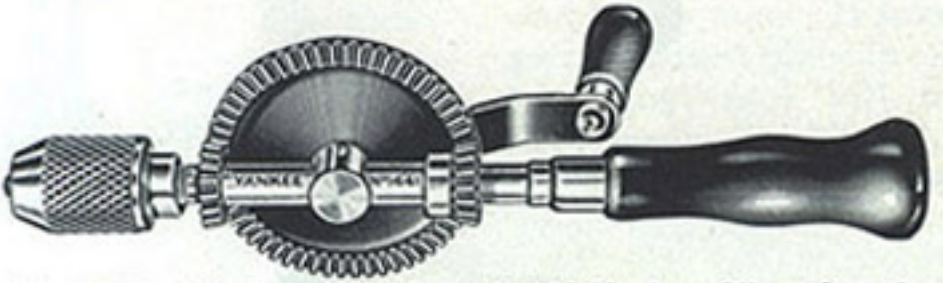


No. 1445.—Two speeds. Length, 15 inches. Three-jaw chuck holds round shanks up to ⅜ inch.

No. 445.—Two speeds. Length, 15¾ inches. Two-jaw chuck holds squares or rounds up to ⅜ inch.

Handle is hollow to serve as a magazine for carrying drills. It is readily detachable from tool by means of milled nut.

Adjustment of all screws on "Yankee" Breast and Hand Drills is provided for by screw-driver bit attached to side handle.

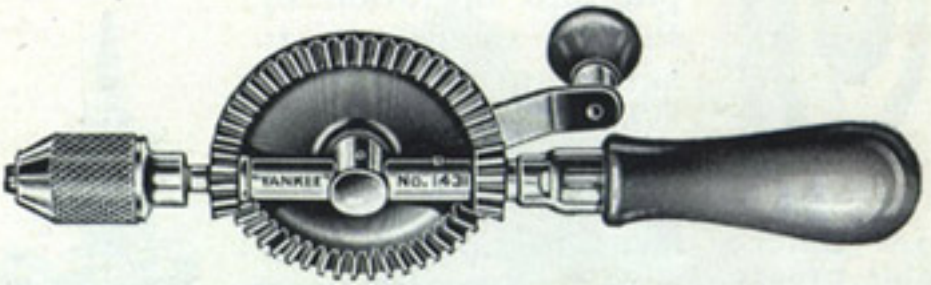


No. 1441.—Single speed. Length, 13¼ inches. Three-jaw chuck holds round shanks up to ⅜ inch. No magazine in handle for drills.

No. 1446.—Two speeds. Length, 14½ inches. Three-jaw chuck holds round shanks up to ⅜ inch. Same as No. 1435 except larger size.

"YANKEE"
Plain Hand Drills

No. 1430.—Single speed. Length, 10½ inches. Three-jaw chuck holds round shanks up to ¼ inch. Handle has magazine for drills.



No. 1431.—Single speed. Length, 9½ inches. Special radio* chuck. Capacity $\frac{9}{32}$ inch. Designed to take largest drills usually supplied with radio drill sets. No magazine in handle for drills.

No. 1435.—Two speeds. Length, 11 inches. Three-jaw chuck holds round shanks up to ¼ inch. Handle has magazine for drills. Back-geared to slow speed for power. Change from fast to slow (made without removing drill from work) prevents jamming in drilling through, and will save breakage of drills.

Speed shifter at midway locks gears to open and close chuck.

* See description of "Yankee" Radio Tools, page 41.

"YANKEE"

Automatic Chain Drills

No. 500—2-jaw chuck, holds square shank drills up to ½ inch. Length, 10¾ inches. Weight, 3½ pounds.

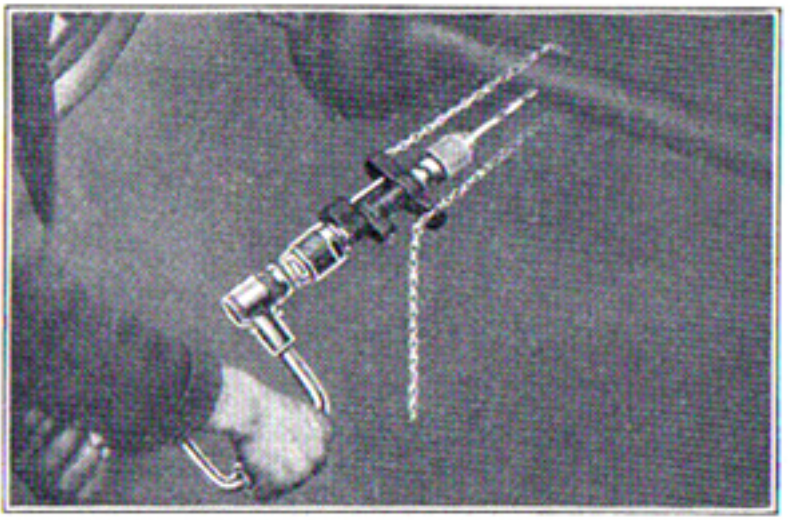
Convenience and rapidity of operation are afforded by the "Yankee" Automatic Friction and Ratchet Feed.

Taking up or releasing of chain is done in an instant with friction feed, by simply turning the brace or breast drill, by which Chain Drill is operated. When chain is tight, the ratchet feed is put into operation by shifting small lever to horizontal position. When drill has finished the cut, the ratchet feed is thrown off by turning lever to upright position. Reverse the movement of brace and drill is withdrawn, chain slackened in a moment.

The feed is automatic, positive, fixed, and without adjustment for drills up to ½ inch, so that drills cannot be broken in use.

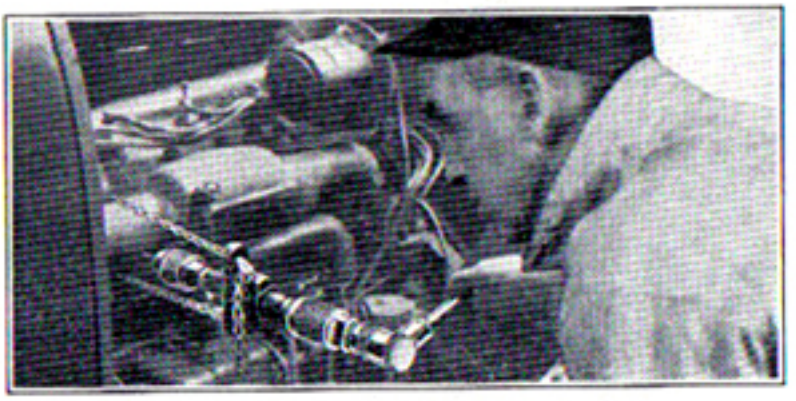
There is no hand feed, no parts to fuss over, nothing to catch or pinch the fingers.

No. 1500—3-jaw chuck, holds round shank drills only, ⅛ inch up to ½ inch. Extreme length 9¾ inches. Weight, 3¼ pounds.



With the "Yankee" Chain Drill you simply turn the brace until the hole is drilled. No bother about feeding. It is automatically taken care of.

Poor roads and heavy loads sometimes prove a bad combination for trucks. The "Yankee" Chain Drill No. 1500 will soon have this one ready for the mending plate—and out on the road again!



All the skill is in the drill. The "Yankee" Automatic Ratchet Feed guides drill through cut with right pressure. Saves trouble, time and temper.

"YANKEE" *on the tool you buy means utmost in quality, efficiency and durability.*

"YANKEE"

Automatic Bench Drills

Friction and Ratchet Feeds

Friction feed operates in moving the drill quickly to and from the work.

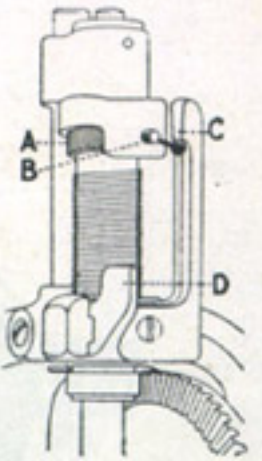
The feed changes automatically from friction to ratchet the moment the drill begins to cut into the work. The ratchet feed is positive, fixed and without adjustment. Pressure is regulated automatically for drills of all sizes. Freedom from hand feeding gives the operator the advantage of the use of one hand for holding the work.

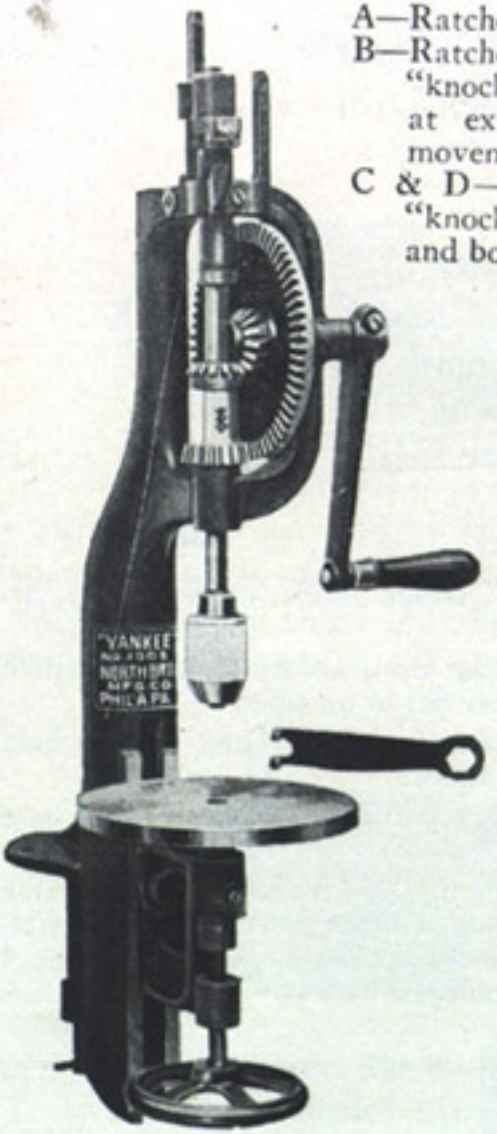
An automatic throw-off at top and bottom of travel disengages the ratchet feed at the extreme up or down movement of the spindle, preventing jamming. Made in two sizes, described on opposite page.

The "Yankee" Bench Drill is one of the most useful tools for garage work. It is convenient, speedy, accurate—and calls for no special skill on the part of the operator.

Adjustable table can be raised or lowered independently of the bracket by means of a hand feed wheel and screw. Bracket and table can be quickly removed for very high work.

A—Ratchet Teeth.
B—Ratchet Shifter in "knock-off" position at extreme of up movement.
C & D—Automatic "knock-offs" at top and bottom.





No. 1005—Two speeds

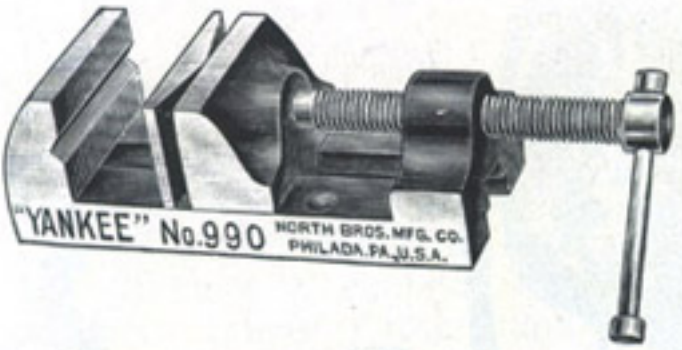
Chuck, holds up to	½"
Diameter of table	6¾"
Traverse Automatic Feed	2"
Adjustment of bracket	5"
Entire length of drill	28"
Net weight	29 lbs.
Gross weight, 1 in box	57 lbs.

No. 1003—Single speed

Chuck, holds up to	¼"
Diameter of table	4¾"
Traverse Automatic Feed	1½"
Adjustment of bracket	2¾"
Entire length of drill	18¾"
Net weight	10¼ lbs.
Gross weight, 1 in box	20 lbs.

The speeds on No. 1005 are controlled by Gear Shifter seen in illustration between the small gears—fast, slow or locked at a finger touch.

"YANKEE"
Vise No. 990
For Bench Drill



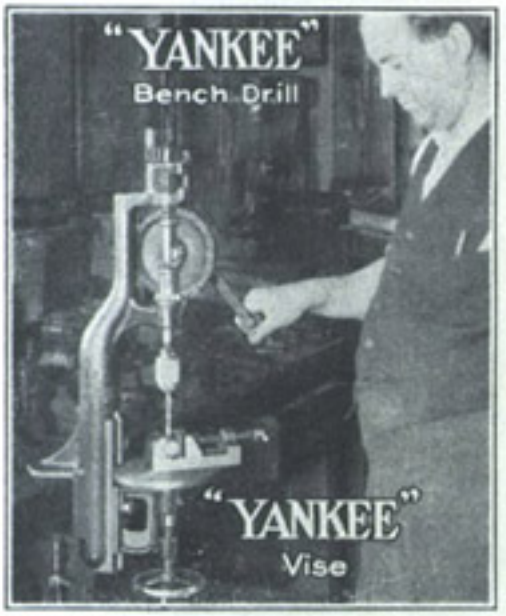
Designed for use on "Yankee" Bench Drills; or separately, attached to bench.

Body and sliding jaw are of cast iron, accurately machined to hold work square, when used either flat or on sides.

With the V-groove shown in the front jaw, round work is held perfectly rigid and parallel at all times.

The removable swivel jaw holds taper work. Made of steel, case hardened.

The base of vise is 6 inches long and 2⅜ inches wide. Extreme height 2 inches. The opening of jaws, without swivel jaw, is 3 inches, with swivel jaw 2⅝ inches. Depth of jaws 1⅜ inches. Net weight, 4 pounds each. Gross weight, 4 pounds 3 ounces.

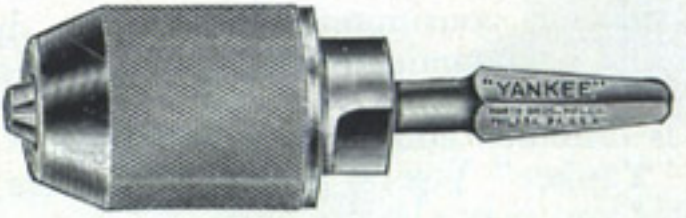


Showing how No. 990 "Yankee" Vise is used with No. 1005 "Yankee" Bench Drill.

"YANKEE"
Drill Chucks

Straight Shanks—½ inch diameter

	To hold	Out. Diam.	Length
No. 1593 Straight Shank	0 to ¼"	1"	4¾"
No. 1594 Straight Shank	0 to ⅜"	1⅜"	5"
No. 1595 Straight Shank	0 to ½"	1½"	5⅜"



Bit Brace Shanks
Made in the following sizes

	To hold	Out. Diam.	Length
No. 1593 BB Bit Brace Shank	0 to ¼"	1"	4⅛"
No. 1594 BB Bit Brace Shank	0 to ⅜"	1⅜"	4½"
No. 1595 BB Bit Brace Shank	0 to ½"	1½"	4¾"

These Chucks are the same as those used on the "Yankee" Breast and Hand Drills. They are simple in construction, accurate and efficient in use.

The Chuck Body is of steel, polished and nickel plated. The Jaws are of tool steel, hardened. The Shanks are of steel, the straight ½ inch accurately turned, and the bit brace square taper milled, to fit bit braces, breast drills and other tools.

"YANKEE" *on the tool you buy means utmost in quality, efficiency and durability.*

"YANKEE"
Vises

This V-grooved block holds round or irregular shapes without marring the work.

Designed for continuous work—from bench to machine and back again, through all operations.

As it is different and does what no other vise can do, the "Yankee" Vise is needed regardless of what other vises you may already have.

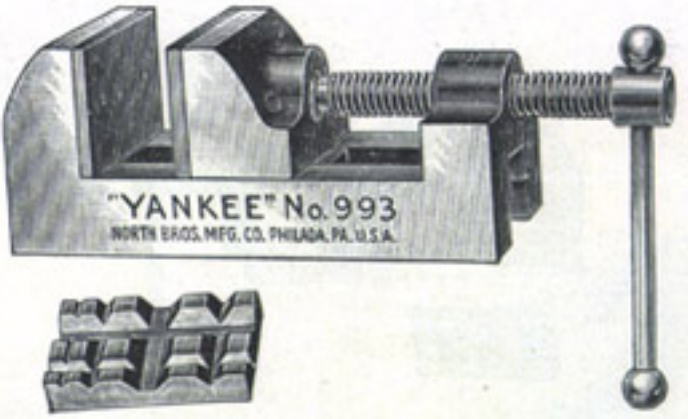
Body of vise quickly detachable, by turn of set-screw, for use on drill press, milling machine, etc. Vise is accurately machined all over so that it can be used on either side or end as well as its base.

Each vise is provided with a hardened steel block, shown above, with V-shaped grooves for holding round or irregular work.

The Swivel Base is easily and firmly locked or released by a short movement of the lever at one side of the base. Nos. 1991, 1992, 1993, 1994 are identical except in size. See page 36.

"YANKEE"

Vises



The "Yankee" Vise assures accuracy from start to finish of a job. The work, locked in the vise, can be removed from the Swivel Base, and carried from machine to machine in the original alignment.

Sides, end, top and bottom of the body and the sliding jaw are accurately machined to hold work square when used flat or on sides.

The illustration below shows how a "Yankee" Vise is easily removed from its base for continuous work.

"YANKEE"

Vises Nos. 991-2-3-4

1991-2-3-4

Without Swivel Base, Nos. 991–992–993–994

	No. 991	No. 992	No. 993	No. 994
Base, Length	3½"	4⅞"	7¼"	10½"
Base, Width	1½"	2"	2¾"	4"
Jaws, Opening	1⅛"	1 13/16"	3⅛"	4"
Jaws, Depth	⅝"	1⅛"	1⅝"	2⅛"
Jaws, Width	1½"	2"	2¾"	4"
Height, over all	1⅞"	2 1/16"	3"	4⅛"
Length, over all	4⅝"	6"	8¾"	12¼"
Net weight	1 lb. 6 ozs.	3 lbs. 6 ozs.	9 lbs. 2 ozs.	28 lbs. 6 ozs.
Gross weight			11 lbs. 4 ozs.	32 lbs.

With Swivel Base, Nos. 1991–1992–1993–1994

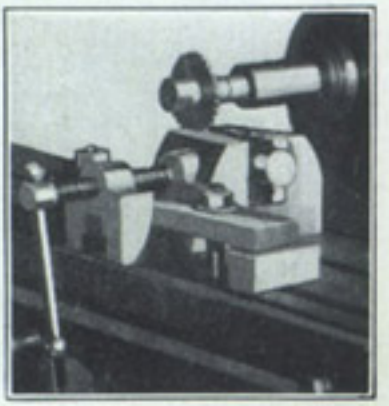
	No. 1991	No. 1992	No. 1993	No. 1994
Swivel Base, Diam.	2½"	3½"	4½"	6½"
Height, over all	3⅜"	4⅞"	6¼"	7⅝"
Net weight	2 lbs. 6 ozs.	5 lbs. 7 ozs.	13 lbs. 6 ozs.	41 lbs.
Gross weight			15 lbs. 8 ozs.	45 lbs.

"YANKEE" *on the tool you buy means utmost in quality, efficiency and durability.*

A steel cylinder has been locked in a "Yankee" Vise No. 1993. The vise with the work in it has been removed from its base on the bench to a surface plate for accurate center marking.

With the vise on its base, screwed to the bench, the work is center punched for drilling.

The body of the vise, still holding the work in the original alignment, goes to the drill press. This means not only convenience and time-saving, but more accurate work.

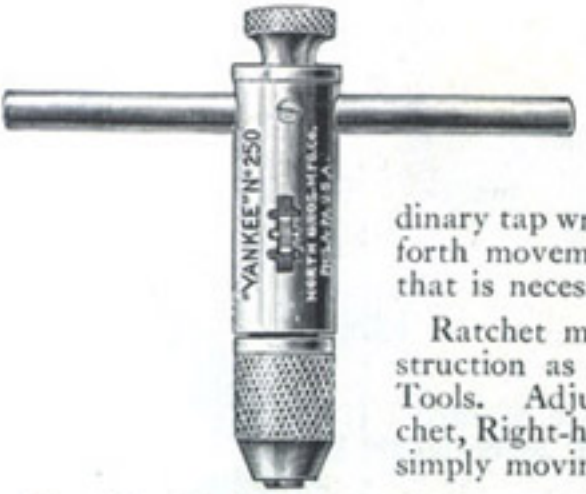


The cylinder, still held in the original position in the vise, is transferred to the bed of milling machine. Accurate alignment is thus secured from start to finish.

"YANKEE" *on the tool you buy means utmost in quality, efficiency and durability.*

"YANKEE"

Ratchet Tap Wrenches



The "Yankee" Ratchet and adjustable cross-bar enable the "Yankee" Ratchet Tap Wrench to work in corners impossible for ordinary tap wrenches. A slight back and forth movement of the cross-bar is all that is necessary to make the tap cut.

Ratchet mechanism is the same construction as used in other "Yankee" Tools. Adjusted for Left-hand Ratchet, Right-hand Ratchet and Rigid, by simply moving the Ratchet Shifter.

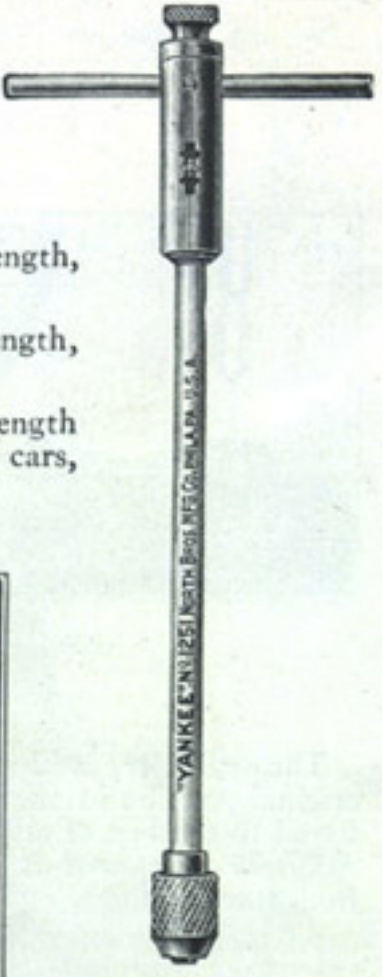
Cross-bar is held central by a friction device. It can be readily withdrawn.

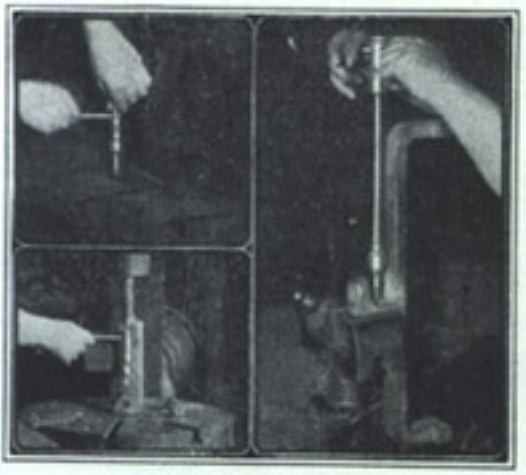
Knurled thumb piece at top affords a ready means of quickly starting in and backing out taps.

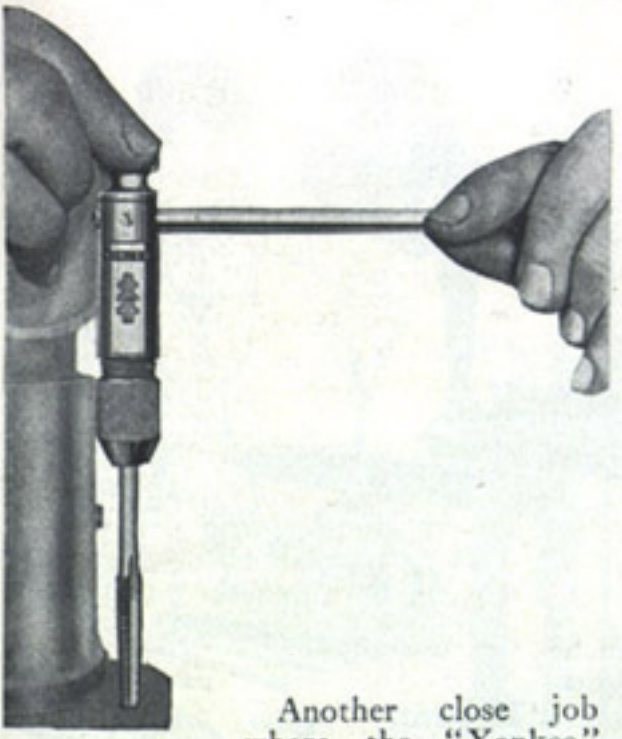
No. 250.—Holds up to $\frac{3}{16}$-inch taps. Length, over all, $3\frac{1}{4}$ inches.

No. 251 holds up to $\frac{5}{16}$-inch taps. Length, over all, 5 inches.

No. 1251 same as No. 251, except length over all is 13 inches. For work in steel cars, etc., and where long reach is necessary.

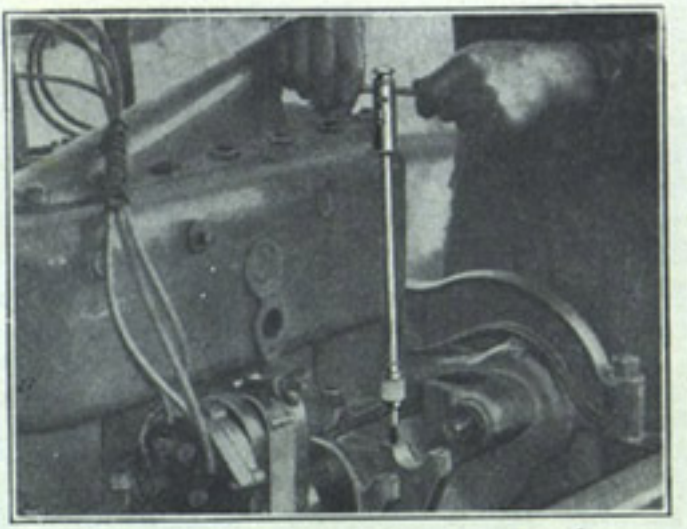






"Yankee" No. 250 tapping in a tight place. An impossible job for an ordinary tap wrench.

Another close job where the "Yankee" ratchet mechanism proves its worth.



"Yankee" Tap Wrench No. 1251, in operation where the worker finds great advantage in having this tool with its extra long shank.

"YANKEE" Radio Tools

"Yankee" Radio Tools consists of a Ratchet Tool Holder with nine attachments; and a special Radio Drill.

These tools make radio jobs easy. Slip the right attachment into the chuck of "Yankee" Ratchet Tool Holder, and you can do any radio work. Do it quicker and better.

Countersinks, reams, runs up nuts, drives screws, bends wire. A touch on Ratchet Shifter gives right- or left-hand ratchet; or rigid adjustment.

For drilling use "Yankee" Radio Drill No. 1431. Radio Chuck, capacity, $\frac{5}{32}$ in.

Radio Tool Set No. 106

In Mahogany-finished Tool Chest

Combines Tool Set No. 105 and Radio Drill No. 1431 (both described on opposite page). Makes a complete set of all "Yankee" Radio Tools. This chest, with compartments, protects tools when not in use, and prevents them from being mislaid.

"YANKEE" *on the tool you buy means utmost in quality, efficiency and durability.*

"YANKEE" Radio Tools

Tool Set No. 105

The handiest set of tools ever made for radio work. Comprising Ratchet Tool Holder with nine attachments. It takes care of all screws; reams and countersinks holes; runs up nuts; bends and loops wire; and is provided with a wrench for jacks and $\frac{5}{16}$-inch hex or square nuts.

Set Contains

No. 230 Ratchet Tool Holder (6¼ inches over all) holds all attachments. Right- and left-hand and rigid adjustments.

Blades—5½ x $\frac{3}{16}$ inch, for long reach into box, between wires, etc.

—3½ x ⅜ inch, for small screws on dials.

—2½ x ¼ inch, for heavy screws, erecting aerials, etc.

Countersink—for countersinking, for heads of screws.

Sockets—(two) ¼-inch and $\frac{5}{16}$-inch hex, with 4-inch shanks. Cover all small nuts.

Reamer—for enlarging holes in panel from ⅜ to ½ inch.

Wrench—one end, $\frac{5}{16}$ inch, square or hex. Other, ½-inch hex for jacks.

Wire bender—for making loops and bending wire.

Radio Drill No. 1431

A beautifully balanced, small, powerful drill, with 4 to 1 ratio of gears for speed. Special Radio Chuck, $\frac{3}{32}$ inch capacity, to take largest drill usually supplied with radio drill sets. Length, over all, 9½ inches.

"YANKEE" *on the tool you buy means utmost in quality, efficiency and durability.*

"YANKEE" Cutter No. 2000

A powerful and substantial cutter for cutting brake lining (and belting) of all kinds up to 6 inches wide and ⅜-inch thick. Not intended for cutting metals.

Power secured through rack and pinion movement operated by lever. Bevel and cutting angle of knives are the result of careful study and experiment, and insure durability, precision and ease in operation. Knives of highest grade steel. Adjustment in case of wear or regrinding is provided.

Capacity, ⅜" x 6".

Extreme length, 11½".

Height closed, 7".

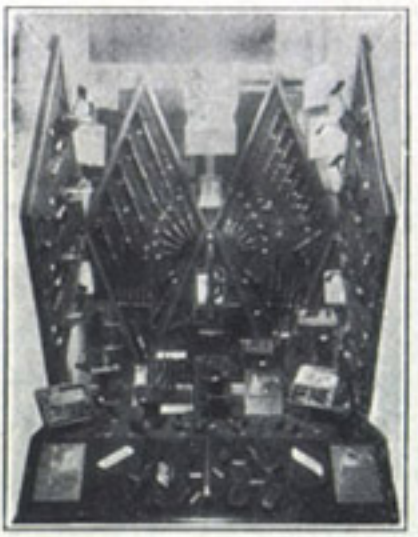
Height open, 8¼".

Width, 7¼".

Length of handle from center, 13".

Net weight, 22 pounds.

Gross weight packed for shipping, 29 pounds.



The Best Hardware Stores Sell "YANKEE" Tools

When you see a window display of "Yankee" Tools you can buy from that store with confidence that you are getting the best.

Dealers who desire to give the utmost value to their customers stock "Yankee" Tools. They know that the small additional amount paid for a fine tool is a worthwhile investment. They want their customers satisfied.

These dealers display "Yankee" Tools prominently because they realize the prestige that such display gives their stores.

"YANKEE" TOOLS
Make Better Mechanics

Look For These "YANKEE" Demonstrators At Your Dealer's

You can operate the "Yankee" Ratchet Brace in its "Yankee" Demonstrator exactly as you would in use.

So that you may try "Yankee" Tools, and see how they work, dealers have these "Yankee" Demonstrators on the Counter.

They are there for you to operate, and the tools work exactly as in actual use.

When you see these bright red and yellow Demonstrators, invest a moment of your time to investigate the unusual way "Yankee" Tools operate.

You will find out why "Yankee" on a tool is a guarantee of quality, efficiency, and durability.

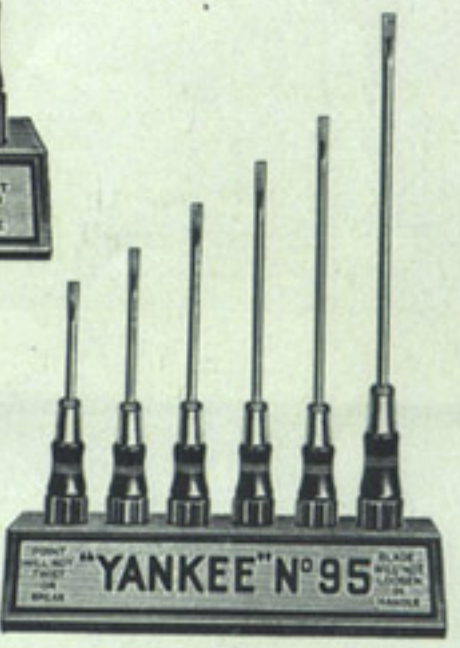
Four leading "Yankee" Tools are held in this Demonstrator. You can work them just as you would in actual service.

"YANKEE" *on the tool you buy means utmost in quality, efficiency and durability.*

You will be interested in these "Yankee" Hand Drills that work where others can't. Prove this by trying them yourself on this ingenious counter demonstrator.

For your inspection and easy selection seven "Yankee" Plain Screw-drivers (Standard style) have been placed in this counter exhibitor.

Six of the most wanted sizes of "Yankee" Plain Screw-drivers (Cabinet style) are presented atop the counter for your convenience in selection.



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DONOVAN-ARMSTRONG
PHILADELPHIA

"YANKEE" TOOL BOOK

This "Yankee" Demonstrator is placed on the dealer's counter for your convenience in trying "YANKEE" Tools. You can operate the tools on the Demonstrator exactly as in use.

NORTH BROS. MFG. CO. PHILADELPHIA U.S.A.

"YANKEE" TOOLS

"YANKEE" Tools can be supplied by your dealer at about prices named below, if not too far from Philadelphia.

Buy of your local dealer. He can, as a rule, show you the Tools and explain their advantages. He can get them for you, if not in stock. It encourages your dealer to carry better stocks and helps your community to buy in your home town.

If, however, your dealer will not supply you, send your order to us, with post-office money order for Tools wanted, and they will be sent promptly.

NORTH BROS. MFG. CO.

N. E. Cor. Lehigh Ave. and American St., Philadelphia, Pa.

"YANKEE" on the tools means the utmost in quality, efficiency and durability.

Ratchet Screw Drivers

	each
No. 10, 2 inch	$ .65
and 3 "	.80
No. 11, 4 "	.85
5 "	.95
6 "	1.05
8 "	1.20
10 "	1.45
12 "	1.60
30 " (No. 10 only)	3.00
No. 12	$ .95
No. 15, 2 inch	$ .70
3 "	.75
4 "	.80
5 "	.85
6 "	.90
8 "	.95
No. 110, 3 inch	$1.15
4 "	1.20
5 "	1.30
6 "	1.40
8 "	1.55
No. 111, 3 inch	$1.15
4 "	1.20
5 "	1.30
6 "	1.40
8 "	1.55
No. 115, 3 inch	$1.05
4 "	1.10
5 "	1.15
6 "	1.20
8 "	1.25
No. 65, 1 inch	$1.60
6 "	1.80

Miscellaneous

	each
No. 60, Pocket S. D.	$1.00
66, Blade Holder	1.15
100, Tool Set	$5.60

Ratchet Tap Wrenches

	each
No. 250	$1.85
251	2.45
1251	3.15

Spiral Screw Drivers

	each
No. 20, size 1	$1.90
" 2	2.25
" 3	2.60
No. 30A	3.00
31A	4.00
35	2.25
130A	3.45
131A	4.60
135	2.65

Attachments for All of Above Chucks and Drills

	each
No. 30	$ .95
31	.95
35	.45

Countersinks

No. 30	$ .25
31	.25
35	.25

Screw Holder Bits

No. 30	$ .60
31	.60
35	.45

Sockets

¼—¼ inch	$ .25
⅜—⅜ "	.30
½—½ "	.35

Screw Driver Bits

Dozen	$2.40
Set (3)	.60
One Only	.20

Slotted Bits

For Bicycle Nipples	$ .25
Metal Sign Screws	.35

Radio Tools

	each
No. 1431, Hand Drill	$3.00
No. 104, Set	8.50
No. 105, Set	3.25

Separate Parts, No. 105 Set

	each
Blades	$ .20
Reamer	.35
Sockets	.25
Countersink	.25
Wire Bender	.25
Wrench	.15
Handle & Chuck only, no Bits	1.40

Ratchet Bit Brace

	each
No. 2100, 8 inch	$5.00
10 "	8.20
12 "	8.40
14 "	8.75

Bit Extension

No. 2150, 15 inch	$2.25
18 "	2.30
21 "	2.35
24 "	2.40

Push Brace

	each
No. 75	$5.50

Plain Screw Drivers Standard Style

	each
No. 90, 1½ inch	$ .30
2 "	.30
3 "	.35
4 "	.40
5 "	.50
6 "	.55
7 "	.65
8 "	.75
9 "	.85
10 "	.95
12 "	1.10
15 "	1.45
18 "	2.05
24 "	2.40
30 "	2.75

Cabinet Style

	each
No. 95, 2½ inch	$ .30
3½ "	.35
4½ "	.40
5½ "	.45
6½ "	.50
7½ "	.60
8½ "	.65
9½ "	.70
10½ "	.75
12½ "	.85
15½ "	1.00

Automatic Drills

	each
No. 40	$2.95
41	2.60
42	2.85
43	1.30
44	3.15

Drill Points

1 Dozen, in box	$1.35
Set (8), " "	.90
One Only	.12

Reciprocating Drill

	each
No. 50	$3.95

Hand and Breast Drills Ratchet

	each
No. 1530	$5.25
540	8.25
1540	8.25
545	10.00
1545	10.00
550	9.75
1550	9.75
555	11.00
1555	11.00

Plain

	each
No. 1430	$3.75
1431, Radio	3.00
1435	4.50
1441	4.50
445	6.75
1445	6.75
1446	6.00
455	7.75
1455	7.75
D Handles for Breast Drills	$ .60

Chain Drills

	each
500	$6.00
1500	6.00

Bench Drills

	each
No. 1003 (f.o.b. Phila.) Cased, wt. 20 lbs.	$13.00
1005 (f.o.b. Phila.) Cased, wt. 57 lbs.	21.50

Drill Chucks

	each
No. 1593	$1.65
1594	2.05
1595	2.60
1593 BB	1.65
1594 BB	2.05
1595 BB	2.60

Vises

	each
No. 990	$3.30
991	2.85
992	3.75
993	7.00
994 (f.o.b. Phila.) Cased, wt. 35 lbs.	13.00
1991	3.75
1992	5.65
1993	9.90
1994 (f.o.b. Phila.) Cased, wt. 50 lbs.	18.25

Brake Lining Cutter

	each
No. 2000 (f.o.b. Phila.) Cased, wt. 29 lbs.	$17.25